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ductory Meteorology, a book of about one hundred and fifty pages, has been written largely by officers of the United States Weather Bureau. In the preparation of Military Geology and Topography the Acting Chairman has had the assistance of geologists and geographers in Government Bureaus and in universities.

4. Suggestions for training in map making and map interpretation in Army Camps, prepared largely by Mr. C. P. Berkey of Columbia University, have been submitted for discussion.

MINUTES OF THE MEETING OF THE EXECUTIVE BOARD

AT THE NATIONAL RESEARCH COUNCIL BUILDING OCTOBER 8, 1918, AT 9.45 A.M.

Present: Messrs. Bogert, Cross, Dunn, Howe, Merriam, Millikan, Rous, Washburn, and Woodward.

The minutes of the preceding meeting, and of the intervening meetings of the Interim Committee, having been circulated by mail, were approved.

Mr. Dunn *moved:* That the following elections by the Interim Committee for membership in the National Research Council be recommended to the President of the National Academy of Sciences for appointment as members of the Council: Vice Chairmen, W. J. Lester (Engineering Division), E. W. Washburn (Division of Chemistry), Peyton Rous (Division of Medicine), and A. F. Woods (Division of Agriculture), together with C. E. Munroe, Chairman of the Committee on Explosives Investigations, and W. H. Howell, Acting Chairman of the Physiology Committee. (*Adopted.*)

Moved: That the whole matter of membership in the National Research Council be considered at a later meeting of the Board, at which time fuller information as to the appointment of members and recommendation for further appointment will be presented. (*Adopted.*)

Moved: That the election of the following as members of the Section on Industrial Research be confirmed: John Johnston, Chairman, L. H. Baekeland, G. K. Burgess, F. G. Cottrell, A. D. Flinn, C. E. K. Mees, Walter Rautenstrauch, W. R. Whitney. (*Adopted.*)

Moved: That the election of the following as members of the Advisory Committee of the Division of General Relations be confirmed: Theodore N. Vail, Chairman, Cleveland H. Dodge, George Eastman, E. H. Gary, A. W. Mellon, Pierre S. duPont, H. S. Pritchett, E. W. Rice, Jr., Elihu Root and Ambrose Swasey. (*Adopted.*)

Moved: That Peyton Rous be appointed Vice Chairman of the Division of Medicine and Related Sciences, in place of Major Yerkes resigned, and that he also be considered a member of the Executive Committee of said Division. (*Adopted.*)

Moved: That the pamphlet showing the present war organization of the Council be printed as of the present date. (*Adopted.*)

Moved: That the work of the National Research Council is of such importance to the Government that request might be made for deferred classification of men indispensable to its work; that office employees not engaged in research could not be considered as indispensable; and that cases of married men with families should be allowed to rest on the statement of the questionnaire, unless special circumstances make necessary a request for exemption. (*Adopted.*)

Moved: That the action of the Treasurer of the National Academy of Sciences in investing funds of the National Research Council, on deposit with the National Academy of Sciences, in readily negotiable bonds, be approved. (*Adopted.*)

The balance sheet as prepared by the Budget Committee was presented for consideration.

Mr. Dunn *moved:* That the Committee be congratulated on the work which has been done in preparing a statement of the accounts of the Council in such an understandable way and that a vote of thanks be transmitted to the Committee, to the Carnegie Institution of Washington and through that Institution to Mr. R. S. Woodward, Mr. John L. Wirt and Mr. E. A. Varela for the valuable aid which has been rendered in this matter. (*Adopted.*)

Moved: That all funds received either for general or special purposes of the National Research Council, with the exception of Government funds disbursed by the Council of National Defense, be handled in one bank account, and that all checks drawn against this bank account be signed by the Treasurer or Assistant Secretary and countersigned by the Secretary or Chief Clerk. (*Adopted.*)

Moved: That the Chairman be authorized to appoint a committee of three on Publicity and Publications, with the Secretary as an ex officio member, to consider the matter of preparation of accounts of the work of the Research Council for publication and to make recommendations. (*Adopted.*)

The Chairman appointed as members of the Committee on Publicity and Publications John Johnston, Vernon Kellogg and Walter M. Gilbert.

The meeting adjourned at 11.20 a.m.

PAUL BROCKETT, *Assistant Secretary.*

The following statements may be made relative to the work of Divisions of the Council during the past month:

Division of Engineering.—Progress continues in the studies undertaken by the Sections on Mechanical Engineering and Prime Movers, and a new subject of investigation concerning a special motor for aircraft, has been added to the list already under consideration.

In the Section on Metallurgy an additional committee has been appointed for a study of the improvement of metals by treatment at blue heat, under the chairmanship of Prof. Zay Jeffries, Director of Research of the Aluminum Castings Company.

In the Section on Electrical Engineering, important progress continues in the electric welding of ships. In particular the cause of the brittleness found at times in these welds has been discovered. About twelve different types of welded joints aggregating about one hundred samples, have been shipped to the Bureau of Standards for mechanical testing. A sub-committee on the metallurgical aspects of welding under the Chairman, S. W. Miller, has been formed. Investigations on the influence of the composition of the ship plates on the properties of the welded joint have been completed.

Division of Chemistry.—The work of procuring and assigning for investigation, war problems in chemistry and chemical technology is proceeding. Up to date forty-five such problems have been received and formulated. There is some uncertainty as to the effect which the inauguration of the Student Army Training Corps at educational institutions is going to have upon this work. There seems to be some danger that in many cases the time of the chemists at the universities is going to be entirely taken up with instructional work, and that they will have no time to devote to research on war problems. It is hoped that in this case it will be possible to make use to an increasing extent of the research laboratories of industrial organizations with such laboratories. One of the war problems received from Chemical Warfare Service and assigned to the Research Laboratory of Physical Chemistry at the Massachusetts Institute of Technology has been progressing very satisfactorily and promises to be of very great value to the work of the Chemical Warfare Service. It may be stated that this problem has been attacked previously by other agencies but without success.

The Division is reorganizing its system of sub-committees on the following basis: Sub-committees which have been active and are doing important work in connection with the war will be retained and reorganized as special committees for certain lines of work. Other sub-committees will be discharged and replaced by a list of special consultants made up in most cases of the chairmen of former sub-committees.

At the request of the United States Fuel Administration, the Committee on Ceramic Chemistry has prepared a synopsis of a course in Chemistry of Combustion and Fuel Engineering for distribution to educational institutions. Up to the present time some thirty requests have been received for this synopsis. The synopsis was prepared by Mr. A. V. Bleininger of the Ceramics Committee and Prof. R. K. Hursch of the University of Illinois.

Division of Geology and Geography.—The work of the Division was under the direction of Mr. H. E. Gregory, Acting Chairman, for the first half of the month and under that of the Vice Chairman for the latter half. The duties of Acting Chairman of the Council having fallen on the Chairman of the Division, he requested the Vice Chairman to take charge of the work of the Division for the present. The principal work of the Division during September has been as follows:

1. The three textbooks for use in the S. A. T. C. courses in colleges and universities which have been prepared under the auspices of the Division (*Military Geology and Topography*, *Introductory Meteorology* and the syllabus on the *Geography of Europe*) have been completed and are now in course of publication by the Yale University Press. The completion of the manuscript and the reading of proof, etc., has taken a large amount of time.

2. Outlines of the courses in which these textbooks may be used have been presented to and approved by the Military Committee of the War Department on Education and Special Training. Many conferences have been held by the Chairman and Acting Chairman of the Division with the Military Committee in regard to the courses in geology, geography and topography.

3. Many conferences have been held and a large amount of correspondence

conducted with teachers of these subjects in the S. A. T. C. courses of various universities and colleges.

4. An examination of lantern slide material which may be available for the illustration of lectures in the S. A. T. C. courses on the Geography of Europe has been undertaken by Prof. E. B. Mathews of Johns Hopkins University as a committee of one for the Division, his necessary expenses to be paid from the appropriation for the Division.

5. Work of the Division in directions previously reported has been continued.

Division of Medicine and Related Sciences.—An important step taken by the Medical Division during the month was to send abroad Dr. Roger G. Perkins of Cleveland as Medical Associate of the Research Information Service in Paris. Dr. Perkins will inform himself of the medical research now going on in England and France and will submit reports from time to time with a view to correlating and stimulating research activities in this country.

Five hundred dollars was voted for study of the etiology of the so-called Spanish Influenza under the direction of Dr. W. H. Park of New York City.

Working committees were appointed for the improvement of transfusion methods; for the treatment of chronic anaemia; and for research along anatomical lines. Many progress reports have been received and several new researches instituted.

PAUL BROCKETT, *Assistant Secretary.*